

WHAT IS CLAIMED IS:

1. An actuator for an optical pickup comprising:
a track coil for driving a lens member to move inward or outward in a diameter direction of an optical disk,
wherein at least part of the track coil is placed in a position closer to an optical axis than an end portion of the lens member.
2. An actuator for an optical pickup comprising:
magnets placed in such a manner that magnetic pole surfaces thereof face each other;
a focus coil for driving a lens member to move close to or away from an optical disk; and
a track coil for driving the lens member to move inward or outward in a diameter direction of the optical disk,
wherein at least one of the focus coil and the track coil has a wound line shape such that sides thereof facing the magnetic pole surfaces are sides parallel to the magnetic pole surfaces, respectively, and portions which join both ends of the facing sides partially bulges outward in the diameter direction.
3. An actuator for an optical pickup comprising:

magnets placed in such a manner that magnetic pole surfaces thereof face each other;

a focus coil for driving a lens member to move close to or away from an optical disk; and

a track coil for driving the lens member to move inward or outward in a diameter direction of the optical disk,

wherein at least part of the track coil is placed in a position closer to an optical axis than an end portion of the lens member, and

at least one of the focus coil and the track coil has a wound line shape such that sides thereof facing the magnetic pole surfaces are sides parallel to the magnetic pole surfaces, respectively, and portions which join both ends of the facing sides partially bulge outward in the diameter direction.

4. The actuator of claim 2, wherein the wound line shape is a hexagon.

5. The actuator of claim 3, wherein the wound line shape is a hexagon.

6. An actuator for an optical pickup comprising:
a holder having, on a surface facing an optical disk,

a holding portion for holding an outer peripheral portion of a lens member from a side of one surface of the lens member whose other surface faces the optical disk, and an opening portion for an optical path about an optical axis of the lens member, inside the holding portion in a diameter direction,

the holder further having, around the optical path, a bobbin portion for winding a focus coil, and a bobbin portion for winding a track coil around which the track coil is wound about an axis parallel to a side of a wound line shape of the focus coil.

7. An actuator for an optical pickup comprising:
a lens holder for holding a lens member; and
a track coil for driving the lens member to move inward or outward in a diameter direction of an optical disk,

wherein an outer end portion of the lens holder in the diameter direction of the optical disk is placed in a position closer to an optical axis than an end portion of the lens member.

8. The actuator of claim 7, wherein a portion of the lens member held by the lens holder is a flange.

9. An optical pickup comprising:

a lens member; and

a track coil for driving the lens member to move inward or outward in a diameter direction of an optical disk,

wherein at least part of the track coil is placed in a position closer to an optical axis than an end portion of the lens member.

10. An optical pickup comprising:

a lens member;

magnets placed in such a manner that magnetic pole surfaces thereof face each other;

a focus coil for driving the lens member to move close to or away from an optical disk; and

a track coil for driving the lens member to move inward or outward in a diameter direction of the optical disk,

wherein at least one of the focus coil and the track coil has a wound line shape such that sides thereof facing the magnetic pole surfaces are sides parallel to the magnetic pole surfaces, respectively, and portions which join both ends of the facing sides partially bulges outward in the diameter direction.

11. An optical pickup comprising:

a lens member;

magnets placed in such a manner that magnetic pole surfaces thereof face each other;

a focus coil for driving the lens member to move close to or away from an optical disk; and

a track coil for driving the lens member to move inward or outward in a diameter direction of the optical disk,

wherein at least part of the track coil is placed in a position closer to an optical axis than an end portion of the lens member, and

at least one of the focus coil and the track coil has a wound line shape such that sides thereof facing the magnetic pole surfaces are sides parallel to the magnetic pole surfaces, respectively, and portions which join both ends of the facing sides partially bulge outward in the diameter direction.

12. The optical pickup of claim 10, wherein the wound line shape is a hexagon.

13. The optical pickup of claim 11, wherein the wound line shape is a hexagon.

14. An optical pickup comprising:

a holder having, on a surface facing an optical disk, a holding portion for holding an outer peripheral portion of a lens member from a side of one surface of the lens member whose other surface faces the optical disk, and an opening portion for an optical path about an optical axis of the lens member, inside the holding portion in a diameter direction,

the holder further having, around the optical path, a bobbin portion for winding a focus coil, and a bobbin portion for winding a track coil around which the track coil is wound about an axis parallel to a side of a wound line shape of the focus coil.

15. An optical pickup comprising:

a lens member;

a lens holder for holding the lens member; and

a track coil for driving the lens member to move inward or outward in a diameter direction of an optical disk,

wherein an outer end of the lens holder in the diameter direction of the optical disk is placed in a position closer to an optical axis than an end portion of the lens member.

16. The optical pickup of claim 15, wherein a portion of the lens member held by the lens holder is a flange.

17. An apparatus for reading or recording information from or to an optical disk, comprising:

an optical pickup for condensing light in order to read or record information, the optical pickup comprising a lens member and a track coil for driving the lens member to move inward or outward in a diameter direction of the optical disk,

wherein at least part of the track coil is placed in a position closer to an optical axis than an end portion of the lens member.